Figure 1A

Pft1 genomic sequence with upstream and downstream sequences (numbering according to BAC F2J7)

```
26041 acaacgatcg ggatcagcaa aatctatagc tttgtagccg tcttctatga ctcatctctt
 26101 ccacaaaaag tcattgacat caactagtct aagatgactg acatacgaaa ttggatccta
 26161 ttttccacta ggccactctg aaaagaaaaa aacacagata aaaaggccat gcggcccatg
 26221 tccaactttt ggaccaatct taaatggcct tcacaatggt tatcatggcc tttatttgat
 26281 tcaagtctgg actaactaca actatgtata caaaatgttt atccacatag cccaaaataa
 26341 gatatcaaat tggttacttt cattttttt tacgtgatcg accttaagct tgttgttagt
 26401 tttggcgttc gatgaaccac ctccaaacca attatattct tcacaagatt ctctgcattt
 26461 atcccacaga tggtaaacaa tctaatcaaa ttaaattcac ttcttcacca aaaaaaataa
 26521 aattaaattc attgcccaat ttacacaaat aaaaagatag taacgaccaa gtcctttgtA
26581 tatcccattt tctattcgga gcatccAaac caaattttgt caatctaatt tatcttctcc
26641 tctcccggag aagaaggaaa cttacaattt acaaagaacg agcttcaata aaaatttcca
26701 aagaaattac cgtcggcgaa tcgttaggct cgagaagaat caccaaattc caaggggaga
26761 gagactgaat tttcttttga ttcacgtaac aacaacgctc agagactATG tcgtcggagg
26821 tgaaacaget gategtegtt getgaaggea eegeegettt gggteettat tggcaaacea
26881 tcgtctccga ctatctcgag aaaatcatca ggtttttctt tttatgaacc ttgtatctct
26941 tttaatcctc gttatttgat tttcattcgg agttagggtt tagctgatac cgttcgaatc
27001 aggetttaat ttcaattggt tagatcaaac ctttgtttat cctctgattc cacaatgttt
27061 tgttgttcgt tgttagtact gtgtttatgt atttgattgt tctgtgtttc atattgagca
27121 atcactttac gttaccttat ggttcctaca ttcttttttt gtgttaggac attgttttcg
27181 atacaacgca ttcataaagc aatgaatttg tagtttctca cttcgatcac gtaaaattga
27241 tattaatatg tgattacaga gaatttagta tataattgcc tgtatagttt gtaactaatc
27301 acattgttgg ctattcttaa tatccactca acatagtatt gtatttcaaa gtagcgtttt
27361 tgtatgttaa aatttcaatt acataatctg tctatgcatt ctttgcattt gtccaggtct
27421 ttctgtggca gtgagttaaa tggagaggta ctatatctga cttatcctcg tttttaagtt
27481 tactcaagtt ttcattcttg agcaaacagt taatcaatgt ttttgaccaa actcatatac
27541 attegttate tgtcaaatca ttgcgacaca aaaaataaca gagcaaattg gtagtttgat
27601 gtgtctgatc gagtctttat atattcacta aacttgcaga ggaaccctgt ttctactgtt
27661 gagctatcac tggtgatctt caatteteat ggtteatatt gtggtacgtg ttgtgettea
27721 tettgtgata tecaaataca aatattattt gggtgettte teatggeest ggttacatta
27781 gcttttgttt tagtaatgtt gttcttatct ttcattcttc ttagcttgct tggtacaacg
27841 gagtggctgg acaagggatg ttgatatttt cttgcattgg ctttcttcca tacaatttgg
27901 tggtggtggt ttcaatgagg ttgccacagc tgaagggctt gccgaagcat tgatggtggg
27961 aaacttgatc tcttttcatc tgtgacacaa ctataagaca tatgtttggg ccactttctt
28021 tcaagctact tttgactaat ttactttctc aataaaatta acttttttct ttccatggct
28081 tcattttatg tggtggtgct tctgtcagcg attttctcga tccttaaacc tcacaatttt
28141 ctctgacttc atgacacaga tgttttctcc tccttcaggc caagctcaac caagtaacga
28201 tetgaaaaga caetgtatee taateacage cagcaateet cacatattge caacacetgt
28261 atategteca egattgeaaa atgtggaaeg gaatgagaat ggtgatgege aagetgagag
28321 tcgattatca gatgctgaga cagtggcttc atattttgct aaggtacttt ttttaactga
28381 ttcccccagg tattacaact agctataatt actcctttta atgggaaatt actaacctgc
28441 catattggtg tgcagtgttc tgtttctttg tctgttgtat gtccaaagca gcttccaaca
28501 attagagcac tatacaatgc ggtgagactg cgtgtctatt tgctattcac tagatgtaca
28561 tctatcaaaa gtctttcttt tgtcagacag ctctttcaaa ggctgtcttt attctcaatg
28621 ctataaactg gtgtaatctt tgttttatac tgttttaaat gcagggaaag cccaatcaac
28681 aaagtgcgga cttgtcaatt gacacggcta agaacacatt ctatcttgtc ctgatctcgg
28741 agaattttgt ggaggcatgt gctgccttaa gtcattctgc tacaaatttg ccacagactc
28801 agagecetgt gaaagtggae agggeeactg ttgeteeate tatteeagte actgggeaac
28861 ctccagctcc tgtgtcatca ggttcttcta ctgacaacat ccatttttct tagtccaact
28921 atcttgattt ttctttgtgc ttctttggat tctatcctgc ttctctatat gaagatctct
28981 ttttgtatga ttttcagcca atggacctat tcagaatcgg caaccagttt ctgttggacc
29041 agttccaact gctactgtga aagttgtaag tctatttgat ctttttagtc agttggagga
```

2/18

Figure 1B

```
29101 gtcagctcta tctattggca accgactctt gtatgtttta taagaattat ttactagata
29161 ttagccgaaa atgaattgta aatttattct ctggtgcttg ataagacatt acaaattttt
29221 atgtgttaat caactagatt taatgttaag ttcatatgaa tatcccattt gtgaaataat
29281 attgtatact caatcagctt attagatagc atatcttcac attagtagaa gcctgttaat
29341 cagatttttg gaatgaaatt gcaggagcct agcaccgtaa cttctatggc accagttcct
29401 agttttcccc atatcccggc tgtagctcgg cctgctacac aagcaattcc ttcgattcaa
29461 acatetteag cateaceagt tteteaggat atggteagea acgeegagaa tgeaceagat
29521 attaageetg tggtggteag tggaatgaeg ceaceattge gtaetggtee teetggtgga
29581 gccaatgtaa atctgcttaa taatctttct caagtccgac aagtcatgag ctctgcagct
29641 ctggcaggtg cagceteate ggttgggcaa agtgeggttg caatgeatat gtcaaatatg
29701 atatcaacag gaatggctac atctttgcct ccttcacaaa ctgtgttttc aactggacag
29761 cagggaatta cttcaatggc tggttcgggt gcactaatgg gatctgcaca aacgggacaa
29821 agcccgggtc ctaataatgc ctttagtcct caaacaacgt caaatgtcgc ttcaaacctt
29881 ggtgtttcac aaccaatgca agggatgaac caaggaagtc attctggagc aatgatgcaa
29941 ggtggaattt ccatgaacca aaacatgatg agtggtcttg gtcaaggaaa tgtctcctct
30001 ggaacaggtg gaatgatgcc tactccagga gttggccaac aagcgcaatc aggaatacaa
30061 caacttggtg gcagtaacag ctcagetect aatatgcage tatcacagee atcategggg
30121 gctatgcaga cttcacaatc caaatatgtg aaagtctggg aggtaatgtc agtttatctt
30181 gtctaaaata acggtgatct tgtgctaact tttacttaca ttttcaaatt catgcaggga
30241 aatttatetg ggcaaaggca agggcageet gttettatea eeagaettga ggtgtgttta
30301 ggggcactta ctatgcactt ttctttcccc ttttctgaat ttactgggat cacatgctta
30361 agcacatett cetetgtaga aetttgttga attgttecaa gtagatatta aetaaegtet
30421 tigtttatat ttgacagggt taccgaagtg cttctgcctc tgattcgtaa gtttataact
30481 aattgaaata tgaaaactgc ttccttacta aaccttgtca ggagagcagt cgactcctta
30541 agaaatgatt gtagctgcta aactaatttt tgctttctct ttttgtgcat ctccccaggt
30601 tggcagcaaa ctggccacca actatgcaga ttgttcgtct catatcccag gaccatatga
30661 ataacaagta atatcttcgt gctatatcct tccttattcc aaatggctca tgggtggatg
30721 ttgatttcat gccactaaat atttcacctg actttgcatc aggcaatatg ttggcaaagc
30781 tgactteett gtgttteggg ceatgagtea acatgggtte ttaggacaae tteaggataa
30841 aaagcttgtg agtattgttg ataatttatg ccacttgtct ccttttcctt attgtttcac
30901 tacaaattta ataacaaaat gatgaatggt gtttactggt ttattagata ttaggatgaa
30961 ttagatgtta agaatgaaaa tctttgaaaa aatatatgta cttacatctg taaacatgtt
31021 ctcggtgaat ctatcaatct cttgctatgt tcaccataca cttaacgatg cctacgcttg
31081 tatgtagcct tgttttgatt agcctaatcg tgtgccatac tattgtcatt ttcacgctta
31141 gcttttgtgg agttgtatat gataactttg tcatcctccg tattgcagtg tgcagtcatc
31201 cagttgccat cacagacgct tettetetet gtetetgaca aggettgccg ettgattgga
31261 atgettttcc caggggtaag gaagtactaa gtttaaggtg tetatatatg ttttgettca
31321 cattagtgac tcttgagggt tgttttgttt actcctagga tatggttgtg tttaaaccac
31381 aaattccaaa tcagcaacag cagcagcaac aacaactcca ccagcaacaa caacaacaac
31441 agcagateca geageageag caacaacaac aacaceteca acageaacag atgecacaac
31501 tecageaca acaacaacaa caccageage aacageaaca geageateaa ttgteacage
31561 tccaacatca tcagcagcaa caacaacaac agcagcaaca acagcagcag catcaattga
31621 cacagettea acaceateat cageageage ageaggegte geegetgaat cagatgeage
31681 agcagacttc gccgctcaat cagatgcagc aacagacttc gcctctgaat cagatgcagc
31741 agcaacagca gcctcaacag atggtaatgg gtggtcaagc ttttgcacaa gcccctggaa
31801 gatcacaaca aggtggtggt ggagggcagc ctaacatgcc tggagctggc ttcatgggaT
31861 AAataaaaat atcagcttca gtgctaatta attagattta tcataactta acattctttc
31921 tttcttcttt ggtcaactcg atcgtcgcca tggttttaga ctctgtttag ttgtcctttc
31981 tgttcttttg agcctgaaaa tggcatgtcc tattctgtat gggtctgacc atttagctac
```

exons= (underlined)
intron donor and aceptor sites = (bold; italic)
transcription initiation = (caps; italic)
start and stop codons = (caps; bold)

3/18

Figure 2

ATGtcgtcgc	7 2004				
tattggcaaa		gctgatcgtc	gttgctgaag	gcaccgccgc	tttgggtcct
gagttaaato	O	cgactatctc	gagaaaatca	tcaggtcttt	ctgtggcagt
tctcatggtt		ccctgtttct	actgttgagc	tatcactggt	gatcttcaat
attttcttgc	3+34	ttgcttggta	caacggagtg	gctggacaag	
_	23	ttccatacaa	tttggtggtg	gtggtttcaa	ggatgttgat
acagetgaag		agcattgatg	atgttttctc	ctccttcagg	tgaggttgcc
ccaagtaacc		acactgtatc	ctaatcacag	ccagcaatcc.	ccaagctcaa
ccaacacctg		acgattgcaa	aatgtggaac	ggaatgagaa	tcacatattg
caagetgaga		agatgctgag	acagtggctt	catattttgc	tggtgatgcg
gtttctttgt	33-45	tccaaagcag	cttccaaçaa	ttagagcact	taagtgttct
ggaaagccca		tgcggacttg	tcaattgaca	cggctaagaa	atacaatgcg
cttgtcctga		ttttgtggag	gcatgtgctg	ccttaagtca	cacattctat
aatttgccac	J	ccctgtgaaa	gtggacaggg		ttctgctaca
ccagtcactg		agctcctgtg	tcatcagcca	ccactgttgc	tccatctatt
caaccagttt	- 3 3 5	agttccaact	gctactgtga	atggacctat	tcagaatcgg
acttctatgg		tagttttccc	catatecegg	aagttgagcc	tagcaccgta
caagcaattc		aacatcttca	gcatcaccag	ctgtagctcg	gcctgctaca
aacgccgaga		tattaagcct	gtggtggtca	tttctcagga	tatggtcagc
cgtactggtc		agccaatgta	aatctgctta	gtggaatgac	gccaccattg
caagtcatga	gctctgcaqc	tctggcaggt	gcagcctcat	ataatctttc	tcaagtccga
gcaatgcata	tgtcaaatat	gatatcaaca	ggaatggcta	cggttgggca	aagtgcggtt
actgtgtttt	caactggaca	gcagggaatt		catctttgcc	tccttcacaa
ggatctgcac	aaacgggaca	aagcccgggt	acttcaatgg	ctggttcggg	tgcactaatg
tcaaatgtcg	cttcaaacct	tggtgtttca	cctaataatg	cctttagtcc	tcaaacaacg
cattctggag	caatgatgca	aggtggaatt	caaccaatgc	aagggatgaa	ccaaggaagt
ggtcaaggaa	atgtctcctc	tggaacaggt	tccatgaacc	aaaacatgat	gagtggtctt
caagcgcaat	caggaataca	acaacttggt	ggaatgatgc	ctactccagg	agttggccaa
ctatcacagc	catcatcggg	ggctatgcag	ggcagtaaca	gctcagctcc	taatatgcag
gagggaaatt	tatctgggca	aaggcaaggg	acttcacaat	ccaaatatgt	gaaagtctgg
taccgaagtg	cttctgcctc		cagcctgttc	ttatcaccag	acttgagggt
gttcgtctca	tatcccagga	tgattcgttg ccatatgaat	gcagcaaact	ggccaccaac	tatgcagatt
cttgtgtttc	gggccatgag		aacaagcaat	atgttggcaa	agctgacttc
tgtgcagtca	tccagttgcc	tcaacatggg	ttcttaggac	aacttcagga	taaaaagctt
cgcttgattg	gaatgctttt	atcacagacg	cttcttctct	ctgtctctga	caaggcttqc
tcagcaacag	cagcagcaac	cccagggga	tatggttgtg	tttaaaccac	aaattccaaa
gcagcagcag	caacaacaac	aacaactcca	ccagcaacaa	caacaacaac	agcagatcca
acaacaacaa	caccagcagc	aacacctcca	acagcaacag	atgccacaac	tccagcaaca
tcagcagcaa	caacaacaac	aacagcaaca	gcagcatcaa	ttgtcacagc	tccaacatca
acaccatcat	cagcagcagc	agcagcaaca	acagcagcag	catcaattga	cacagettea
gccgctcaat	cagatgcagc	agcaggcgtc	gccgctgaat	cagatgcagc	agcagacttc
gcctcaacag	atootaato	aacagacttc	gcctctgaat	cagatgcagc	agcaacagca
aggtggtggt	atggtaatgg	gtggtcaagc	ttttgcacaa	gcccctggaa	gatcacaaca
atcagcttca	ggagggcagc	ctaacatgcc	tggagctggc	ttcatggga <u>r</u>	<u>AA</u> ataaaaat
ggtcaactcg	gtgctaatta	attagattta	tcataactta	acattcttc	tttcttctt
agectgaaaa	atcgtcgcca	tggttttaga	ctctgtttag		tgttcttttg
agcetgaaaa tggeatgtee tattetgtat gggtetgaee atttagetae					

cDNA sequence of PFT1

Figure 3

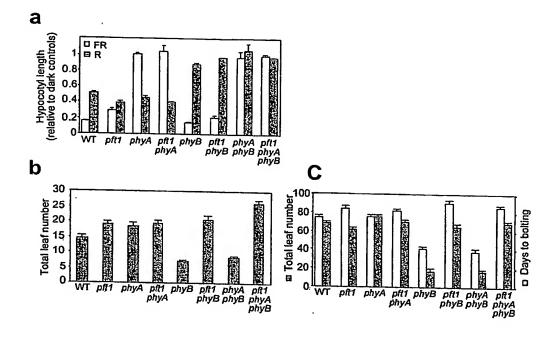
Protein sequence

M S S E V K Q L I V V A E G T A A L G P Y W Q T I V S D Y L E K I I R S F C G S E LNGERNPVSTVELSLVIFNSHGSYCACLVQRSGWTRDVDIF LHWLSSIQFGGGGFNEVATAEGLAEALMMFSPPSGQAQPSN DLKRHCILITASNPHILPTPVYRPRLQNVERNENGDAQAES R L S D A E T V A S Y F A K C S V S L S V V C P K Q L P T I R A L Y N A G K P N. Q Q S A D L S I D T A K N T F Y L V L I S E N F V E A C A A L S H S A T N L P Q T Q S P V K V D R A T V A P S I P V T G Q P P A P V S S A N G P I Q N R Q P V S V G P V P T A T V K V E P S T V T S M A P V P S F P H I P A V A R P A T Q A I P S I Q T S S A S P V S Q D M V S N A E N A P D I K P V V V S G M T P P L R T G P P G G A N V N L L N N L S Q V R Q V M S S A A L A G A A S S V G Q S A V A M H M S N M I S T G M A T S L P P S Q T V F S T G Q Q G I T S M A G S G A L M G S A Q T G Q S P G P N N A F S P Q T T S N V A S N L G V S Q P M Q G M N Q G S H S G A M M Q G G I S M N Q N M M S G L G Q G N V S S G T G G M M P T P G V G Q Q A Q S G I Q Q L G G S N S S A P N M Q L S Q P S S G A M Q T S Q S K Y V K V W E G N L S G Q R Q G Q P V L ITRLEGYRSASASDSLAANWPPTMQIVRLISQDHMNNKQYV GKADFLVFRAMSQHGFLGQLQDKKLCAVIQLPSQTLLLSVS D K A C R L I G M L F P G D M V V F K P Q I P N Q Q Q Q Q Q D L H Q Q Q Q Q Q Q I Q Q Q Q Q Q H L Q Q Q Q M P Q L Q Q Q Q Q H Q Q Q Q Q Q H Q L S Q L Q SPLNQMQQQTSPLNQMQQQQQPQQMVMGGQAFAQAPGRSQQ GGGGGQPNMPGAGFMG

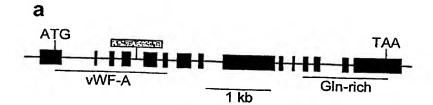
Predicted Protein sequence of PFT1

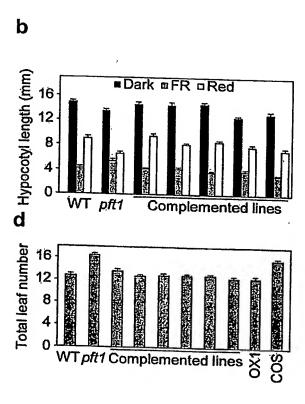
5/18

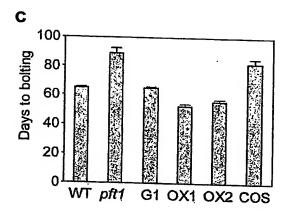
Figure 4



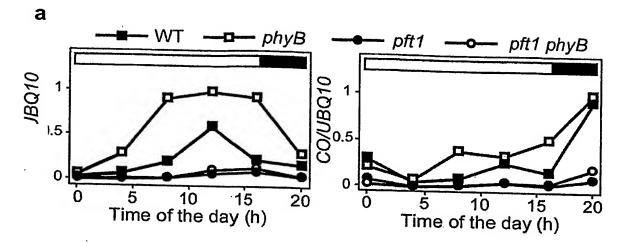
6/18 Figure 5

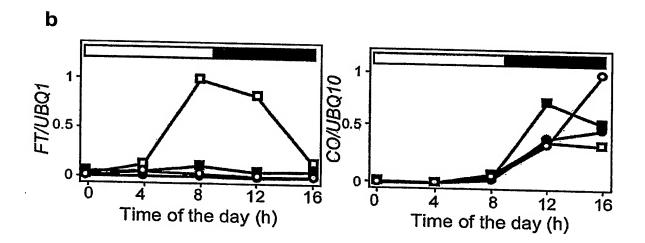




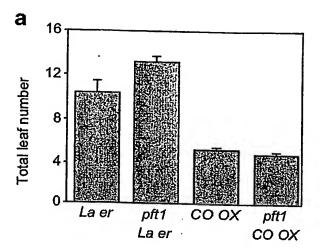


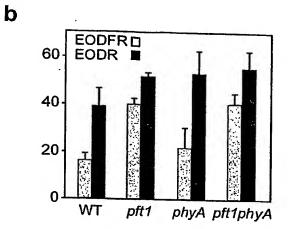
7/18 Figure 6

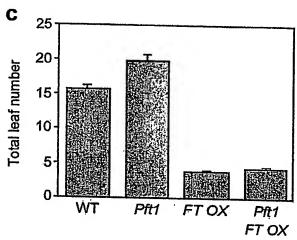


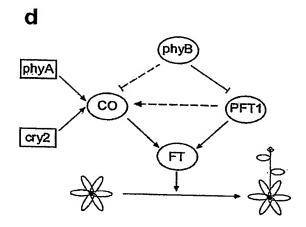


8/18 Figure 7



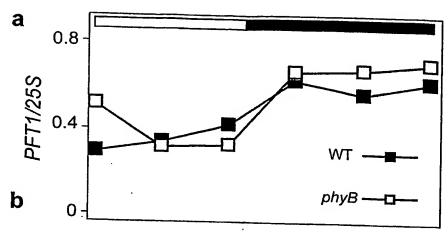


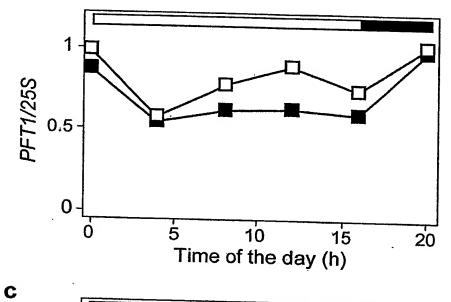












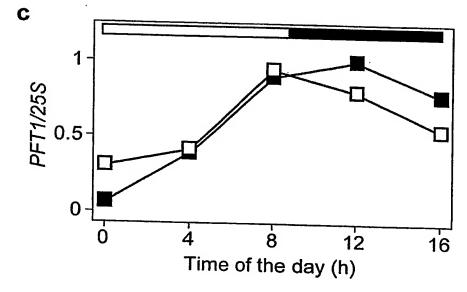


Figure 9A

Part 1.
Alignment Table

Seq	A Name	Len(aa)	SeqB	Name	Len(aa)	Score
T	SoPFT1	724	2	OsPFT1	832 .	64
1	SoPFT1	724	3	SbPFT1	_	
1	Sopft1	724	_		582	70
			4	Mt PFT1	741	40
1	SoPFT1	724	5	At PFT1	836	
2	OsPFT1	832	3	SbPFT1		49
2	OsPFT1	832	_		582	51
-	· - 		4	MtPFT1	741	42
2	OsPFT1	832	5	AtPFT1	.836	
3	SbPFT1	582	4			45
3				Mt PFT1	741	34
_	SbPFT1	582	5	AtPFT1	836	39
4	MtPFT1	741	5	AtPFT1		
===:			-		836	52

Part 2.

Alignment

SOPFT1 SbPFT1 OsPFT1 MtPFT1 AtPFT1	MAAADRQLVVAVEGTAALGPYWSTIVAEYVEKIVRSFCASELPGQKLAGAPPELALVV 58TRYWSTIVAEYVEKIVRSFCASELPGQKLAGPPPELALVV 40
SOPFT1 SbPFT1 OsPFT1 MtPFT1 AtPFT1	FHTHGPYSAFDVQRSGWTKDTDAFLSWLSGISFSGGGFSEASTCEGLAEALKILQGSPNT 118 FHTHGPYSAFDVQRSGWTKDTDAFLSWLSGISFSGGGFSEASTCEGLAEALKILQGSPNA 100 FHTHGPYSAFCVQRSGWTKDMNVFLSWLSGISFSGGGFSEAAISEGLAEALMILQGSSSN 110 YNTHGCYSGILVQRTGWTRDPDVFLQWLESIPFSGGGFNDAAIAEGLAEALMMFPPSQSG 116 FNSHGSYCACLVQRSGWTRDVDIFLHWLSSIQFGGGGFNEVATAEGLAEALMMFSPPS 116 :::** * ***:**:* : ** ** * *.*****::: .******* ::
SOPFT1 SbPFT1 OSPFT1 MtPFT1 AtPFT1	TQSHQNHEAQKHCILVAASNPYPLPTPVYCLPTQSTDHKENIETAKEPSIADAETVAKSF 178 TQSHQNHEAQKHCILVAASNPYPLPTPVYCLPTQSTDHKENIETSKEPSIADAETVAKSF 160 SQNHQSHEVQKHCILVAASNPYPLPTPVYRPLVQSSDHKENNDGAKESCLADAETVAKSL 170 GLNQQNVDTNMHCILVAASNPYPLQTPVYVPQLQSLEKTESIDSNQVNQLYDAEAVAKAF 176 GQAQPSNDLKRHCILITASNPHILPTPVYRPRLQNVERNENGDAQAESRLSDAETVASYF 176 : : : ****::****
SOPFT1 SDPFT1 OSPFT1 MtPFT1 AtPFT1	AQCSVSLSVISPKQLPTLKAIYNAGKRNPRAADPSVDHAKNPHFLVLLSENFMEARTALS 238 AQCSVSLSVISPKQLPTLKAIYHEAVVAVEAFRAYKEKVANLTGVTRKFMGNLV 214 LRCSVSLSVVSPKQLPTLKAIYNAAKRNPRAADPSVDHAKNPHFLVLLSDNFLEARTALS 230 XQFNISLSVVCXKQNFSHLQCGRAKGRSADPPVD-PKTTHFLILISEGFREARSALS 232 AKCSVSLSVVCPKQLPTIRALYNAGKPNQQSADLSIDTAKNTFYLVLISENFVEACAALS 236 : .:****:

11/18

Figure 9B

SoPFT1	PDI-HCMI-A DNOTI TVMDTA DAV	
SbPFT1	RPLHGNLAPNOTITKMDTAPAVTMPGPTSNANPSGRQPVVGGISTATVKVE	289
OsPFT1		
MtPFT1	TO DE GIVE A TRUET I VANDIAATS A DA DA LA COMPONICIONAL MEDICINAL CONTRACTOR	
AtPFT1	THE CALL OF COLUMN AND A COLUMN	
ACPFIL	MOTITUDE Q1Q5FVKVDRAIVAPSIPV1GQPPAPVSSANGPIQNROPVSVGPVPTATVKVE	296
	:. ::: *	
Co DEM1		
SoPFT1	PATMPPIVSAPAFSHVTPISNVASQGISALQTSSPSLISQEANMANDNVQEHKPIINP	347
SbPFT1		
OsPFT1		
MtPFT1	*	
AtPFT1	PSTVTSMAPVPSFPHIPAVARPATQAIPSIQTSSASPVSQDMVSNAENAPDIKPVVVS	343
	·: · · · : · · · · · · · · · · · · · ·	334
	· · · · ·	
SoPFT1	-VQQPVRPGGHGSLLNNLSQVRLMNSTSLGGGATSMGLPNIG	200
SbPFT1		_
OsPFT1	TASOTAL GGEWIN STENNINDSCHRENALL LISGGMDGTDMGGTGCCGTGCCGTGCCGTGCCGTGCCGTGCCG	
MtPFT1	····×·································	
AtPFT1	GMTPPLRTGPPGGANVNLLNNLSQVRQVMS-SAALAGAASSVGQ	388
		397

SopfT1	AT-PIQVHMSNMISSGMTSTPSVISSMSGPGHP-IGTQQMIQSTALGSF	
SbPFT1	AITPLQFNMSNMISSGATSTPLVTFSMSAPGQP-IGNQDMVQSTALGSF	435
OsPFT1	SNTPITGNSNIAVSSSLGGIQSNIGISGPP-VTQGGSMGSTQLGQG	398
MtPFT1	TPVAMHMSNMISSGTTSSGPTGQNVFSSGPSVITSSGSLTASAQVGQNSGL	443
AtPFT1	SAVAMHMSNMISTGMATSLPPSQTVFSTGQQGITSMAGSGALMGSAQTGQSPGPNNAF	439
	: :: : : : : : : : : : : : : : : : : :	455
SoPFT1	GSNTSTVSGNSN-VAVSSSLTNNQSS	
SbPFT1	GSNTSTAWDNSD-IAESSSQPNS	460
OsPFT1	GINTNQNMISSLGTTTVSSAPAMMPT	420
MtPFT1	SSLTSATSNSSXCLXEFLXFVRGGKVRSKFVVLRGPAKMMQN	469
AtPFT1	SPOTTSNVASNI GVSOPMOGMIOGSUSCAMOGGI CARACONICO SKEVVLRGPAKMMON	481
	SPQTTSNVASNLGVSQPMQGMNQGSHSGAMMQGGISMNQNMMSGLGQGNVSSGTGGMMPT . *.	515
SoPFT1	MGMGOSVOPVAOGGI.VAGSOI.GOGGI.GAVOVVAGGI.GOT	
SbPFT1	MGMGQSVQPVAQGGLVAGSQLGQGGIGANQNVMSSLGSTAISSAPAMMPTPGMVPQTGVN	520
OsPFT1	MAMNRQAGIN	430
MtPFT1	-GVN	479
AtPFT1	PGVGOOAMD	486
	PGVGQQAQSGIQ	527
	.: : :.:. :: :: :::: :::: ::	
SoPFT1	SLGVNNNPAMNMDT POWANAGO	
SbPFT1	SLGVNNNPAMNMPIPQHANAQQPAPKYVKIWEGTLSGQRQGQPVFICK	568
OsPFT1		
MtPFT1		
AtPFT1	TWDCCT VCDWCALL TWDCCT VCDWCALL	
	2-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	577
	****** * *:** *:**	

Figure 9C

SOPFT1 SbPFT1 OSPFT1 MtPFT1 AtPFT1	LEGYRSGTASETLAADWPETMQIVRLIAQEHMNNKQYVGKADFLVFRTLNQHGFLGQLQE LEGW-SGIVSKTVAADWPETMQIVRLIAQEHMNNKQYVWKGRLSNISDFKSAWFLGQLQE LEGYRSGTASETLAADWPETMQIVRLIAQEHMNNKQYVGKADFLVFRTLNQHGFLGQLQE LEGYRSSASETLAANWPPEMHIVRIISQDHMNNKKYVGEADFLVFRARNTHGFLGLLQE LEGYRSASASDSLAANWPPTMQIVRLISQDHMNNKQYVGKADFLVFRAMSQHGFLGQLQD ***: * . : : * * : * * : * : * * : * * : * :	533 599
SOPFT1 SbPFT1 OSPFT1 MtPFT1 AtPFT1	KKLCAVIQLPSQTLLLSMSDKARRLIGMLFPADMVVSXPQVPTQQTQLQQQ	659
SOPFT1 SbPFT1 OsPFT1 MtPFT1 AtPFT1	OIOOOOOOOHLOOOOMPOLOOOOOOOOOOOOOOOOOOOOOOO	719
SOPFT1 SbPFT1 OsPFT1 MtPFT1 AtPFT1	OTOHHHOOOOOVSETNOMOOOTSPINOMOOOOOFOUNGTGWGOOOPOWVGTGW MOOMOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	779 723 801
SOPFT1 SbPFT1 OsPFT1 MtPFT1 AtPFT1	GQQQPQMVGAGMGQQYMQGHGRTVQQMMQGKMAPQGPGSMPGAGSMPGGGYLS 832QQQQMG-WCWNGSNLCSRS	

13/18

Figure 10A

Rice Pft1 genomic sequence with upstream and downstream sequences (numbering according to BAC OSJNBa0064I23)

```
98101 ggcacccgat tcttagttac tccctccatt ccataatata agggattttg agtttttatt
 98161 tgcattgttt gaccactcat cttatttaaa aaaattgtgc aaatataaaa aacgaaaagt
 98221 tgtgcttaaa atactttgaa taataaagta agtcacacaa aaaataaata ataattccaa
 98281 attttttaa taagacgagt ggtcaaacag tgcaaataaa aactcaaaat cccttatatt
 98341 atgggacgga gggagtacct cctaaaaata cccttagttt agccgaaagg ctacactcaa
 98401 aactaacctg atgtatacta agaaagtaat aaatgctcac aattcttccc aactatagag
 98461 taccattatt attacattta ctaaacacca taaaagaaca atacaactct tttttacacc
 98521 aaaatttccc catattcccc tatggcccca cctgtcatcc acacaaaagc ccaccttct
 98581 tcttatgggc cttggggccc atataaatta gaccccagta ccccaccct tcgccgtcat
 98641 ctctctctaa cctcacgaaa cctaacaaga agaagaagaa gagaaattcc ggcaaggaag
 98701 ggagggaggg agaagtcgtt ggtgcggggg agattgattt cgcgggaggg aggggagctc
 98761 gagaggeggt gattegggga gteggeaggg tgggegggg tgeggeggegg gegggggegg
 98821 ccgtcggggg gATGgcggcg gcggcggccg agaggcagct ggtggtggcc gtggagggga
 98881 cggcggcgct ggggccgtac tggcccgtca ccgtggcgga ctacgtcgag aagatcgtgc
 98941 ggtaatgetg egeegtget tteeteece egeegegeea ecetgettte ttgttactag
 99001 ttgactgtac ggccgtcgcg gattagtgca tcttggattt cttgatgtgg aagaattgga
 99061 ccctttgttg attgtttagc tgtttatttt gagacgaagg gagtacatgg aacgcgaagc
 99121 ggtagctagt tagttettga tagtggaagt tageagetat cegtgtatgt gtttgatata
 99181 cacagttttt tagttatatt agtcggatat atcgttcact ccaagcatta gtaggagatt
 99241 tggagatttg ttgtttgctc tcaccttctt aattgcaaac attaaatggt actagttagc
 99301 ttcaattctg tttcacaatg cttattcaaa gagtaagaat gcaagcgcat catcgatgtg
 99361 tggaaattcg tggtttcttg atgaactggt tggttgttgg ctatatggtg ttgtggcacg
 99421 agatacatct ttttttgctc ctgattcgag gagactttgt atcactgcat atgtgcagat
 99481 ctatgacaga atgtagcata attcatcttc tactttgggt tttatgcctt ttctagttcc
 99541 tccttgctca ttcagaagta tttttcttca gtctagcata ttttagtgtt tttttttca
 99601 tgaatgatga atgattccca tgaaaaccaa tttcagtttt tggctggtga ttttactact
 99661 cttctgtaca accagtaatg taatgatggg atgtctgttt ggttatggtt atggcttttc
 99721 tgaagteett gtttteacte ttgttaatta gttgatgtte tggtttegea tgggtgtaat
 99781 tggaatattc atcacatgag tcaaatttct tgtgttcaag cctttcaaat aaaaaaaata
 99841 atgaaagtgg gagctgtttg tattgttggt caataatcag tttgctctga attattaggg
 99901 tttgtttgca gttgctatcc tcctgtgctt attatttagc ttctgtggaa acagttaaga
 99961 aaaacttcgt agtctgtttg agaaatcaaa ttaatgttag acgaattctg ttagtcaatt
100021 taaactgtta tttctctgac aagtgttctg tttttagaac tgaaataata tctctatttg
100081 caacttgatt aaaagagcag cagttagcca aacatcaaaa tttctataag ctactgtacg
100141 gaacaggatt atcatagtcc acctcaacgc aaaatccaaa tggagccttt gatgttatgt
100201 ggtgatccac cacagettca eteteatata ettactatea tgaaaetttt aageteatet
100261 cttgctagaa atttttgtca atttctgtag cacttagtaa cctttgcatt tttagtacta
100321 ctattcatga agcatttcaa tttatgcagg agtttttgtg cacatgaaat ggcaggacag
100381 gtaatttgct ctcagtattt atcgtcggac ttactacttg atccatgttt ccttgacttg
100441 tgtcaaaact caaaagtgta aattattatc gtgttatgca gaagctcgca gggacacccc
100501 ctgaacttgc attagtcgtc ttccataccc atggtcctta tagcggtaaa gtttgatatc
100561 ctccatgccc taagcttttt attatgatcc attgcaatta tttgtattta gttctatatc
100621 aacaaaacat gtaagctatg ataattcgct tttgattcct tgcagctttt tgtgtgcaac
100681 ggagtggatg gacaaaagat atgaatgtgt ttctttcatg gttatctgga atatcattta
100741 gtggtggagg ctttagtgaa gctgctattt ctgaaggtct tgctgaagca ttgatggtat
100801 tgacatattg gcatcgttca gttcttttca ctttttgcac ataatgactt cctctggtgt
100861 ttcctgtact tttttttt ggttcaaaat gcataaatta gaaactgtgg cttactactt
100921 ccaaaatttc agtactgcat atggttgcct acttttgagt tcccgtgcaa ggttttagca
100981 ttttgtttgg cttgtgcaat catgcttcat ttggcatatg aaatgatgtt tctttttgc
101041 caaatggcac atctttcatg ttaacatcaa cagtagcaac ctttagttcc aggcaagttg
```

14/18

Figure 10B

```
101101 gggtaggcta gagatgaaac tgatgtgcag ccacaaaaaa actaagggaa gtatagtact
101161 agtaataaca atatagttaa agaagacgtg aattaggtca tgattctggg catgtggacc
101221 gccaatttcc atgcaactct atccaaaacc ataattcatc tccacaggaa cgactgggat
101281 ttttatgatg gcttaccaat gttatcgcaa cattcttcct ttactcagcg ttaggaccag
101341 ctatgctgaa gcaaaggcag agtttggtat cttattaaca gagatatttt gatttcctag
101401 atgaagggaa atacetettt teatetetea etgeacetga atttgggtee agttttgtet
101461 aaattagttg atctacaatt ttgtttctca tagtaagccc tgtaaactat tagttgagcc
101521 tggacattat gtagaaccat gatacttaac aatacatgtt ctacccaacc ttttggatta
101581 ctttattttc caagaattat agcttgttgt cttggtattg ttatttccag tattctctag
101641 aatotgtoot ttaatgooot totgoacaac atatgattoa tgtgagaaaa ttotaaggtg
101701 gtttgcacat ccacttatca gctattgtct cataaaaaat gtcttgatct ggatatcagc
101761 tacagatage ettacettag taaatagagt gtataactgt aatcaccatt teattaggtt
101821 aatttttgta aggaagattt tcattagatc aaccctatta ggaaactgga tgtctgggcc
101881 agtacccaga ataagcagag tgaaactagt atgatcagaa gtttaaattc tatgaatgta
101941 cctatattag tatgttaatt ttcctatggt actgagtctt caaaaatcaa aatttcagtc
102001 ttcatcccta ctattataaa gagggaatcg tcctcctcca cctccacata aaagcctctt
102061 tectecataa aaactgteca eectaaaaaa aactgtttae taataaagee aaccattgta
102121 taaacaccga acagctcact gggcccaaat cctcccacta aacttaataa aaaaaaccat
102181 tgcaatgcat gacagcatga gcctataact agttgaaaaa tacttgggtc tttgaatttg
102241 atatcatttt atttcttgag ttctctatga attaaagtat ttattgcctt tatgatttta
102301 tttcctgtgt gcaactagat actccaaggc agttctagta acagtcagaa tcatcaaagc
102361 catgaagtac aaaaacattg catacttgtt gcagcaagta atccttatcc actgcctacg
102421 cctqtctacc gccccttqt tcaaaqtagc gatcacaaqg agaacaatga tggaqcaaaa
102481 gaatcttqtc ttgctgatgc tgagactqtt gcaaaatcat ttgctcaggt cctacacaaa
102541 tactgatatc tagcatattg ctgattacct gtgtttcaat gaagtggtca gcagtcattg
102601 ttggttctaa ttaattttac ttatattgat gtagtgctcc gtttcattgt cggtggtatc
102661 tcctaaacag cttccaactc tgaaagcaat atacaatgcg gtaatttcgt tattttgttt
102721 tgctaaattc tgtaagccac aagccatctt taataatctt ctcctggtat tttacttgtt
102781 cattgatggt atgatagttg catcttgatt tacagagggt tgaaaaactc acttaagaat
102841 atatetttta aaataaatta taageatgaa ettgeagaae tggeegetee aetattaeat
102901 atgttcttgt acttgtacac agtactaaac ttcatatttt cattaccatt gaaataaaaa
102961 gagtaaattt tatcaaacac cacctattat ggtccaagtt gcacaaaacc acagggattt
103021 tggcacatga cacataaccc catgtattat ggccctaagg tttaacaaga ccacaccgtt
103081 aaccaatttt acatactcct atatcaaagt tttaaaagtt ttagttacat tcatgtaaca
103201 gtggttgtgt gaaactttat agctataata cctggtggtt aagtgtcacg tgccaaaacc
103261 catgtggttt tgtgcaactt agaccacaac acctaaaggt taagtgaaat ttactcaaat
103321 aaaaatgaac tcagtttgga ttgtactgtc attgtatctt atttgtggat aagaaaaata
103381 tccatttatt tcatttttt aattagttag tatcctgcct gaacttgcta gctagtcttt
103441 gtatggttta cagactataa atctatgaat tggcatcctt atctatcatt agtttaatac
103501 aagcattttt taacttacat gatataaatt ttatcttctg caagaccttc gacagtttgt
103561 actgatgaat aatttgcacc aggtgctgat gttgtccatg ttttgttgca ggcaaagagg
103621 aatcctcgag cggctgaccc atcagtggat catgcaaaaa atccacattt tcttgttttg
103681 ttgtctgaca attttttgga ggctcgaact gctctaagtc gccctttacc tggcaacttg
103741 gtcacaaatc accccattac aaaaatggat acagctgcaa catctgtgcc agtaccaact
103801 tcaaatggca accectcagg ttgaacaaat gctaacattt ggcttagtct tgccatggta
103861 tttagccttt agttctgttc ctcttttgga cgaaaggttg tgacgttgtt acgatgtttg
103921 tgaatatgta ggtgcttaca catagtctag cgtgagtctg ctttaacaaa tgcttgacac
103981 agctttgtta aggaaaaaaa tgttaggcta aagtgaaata aaccattgcc ataattactc
104041 catgggctga agcaacatag gttaacaatt atcgttgcat atattggtac gcctgactat
104101 tttaatagca ggaaggattc tggcaatgcc cttatgccat ccatttttgg cccgaaaaaa
104161 gcatatcatt gagttttcaa agccttagag gaataaaatg tattgtgagc tctcctctat
104221 tatgaacacg atgtgcttgt gcatctgaca ttacatggga ctacaatata atttcctata
104281 gtttatctcc aatttgtcaa gtacagatgc cttgagctgg agatgaagaa aaatggatgt
```

Figure 10C

```
104341 actgaataca caaacgtgaa aacctgcctc ctaaaagctt gtaccattgt gttctatttg
104401 teceetteee atetgggtgg tttttcaatt gtagtgeeaa gaaaacatag attattetat
104461 aatgattgtg tetteatggt tateattgge atggggteae aactaattgt ttggactetg
104521 agtgataatg ctttcaatgg catggtgtct tcggattgat gaattctata tggataacaa
104581 gttttgtttt tcagcatctt aatcaaaatt aacactgagg atacaaatat atcgcaattc
104641 ctgtttttat acacagcaat gtggttttaa aggtattcgt ggatatacat aatttgttgt
104701 ttttgtgagt gttgatgaag ccccttcatt gtttgtttca taaataaaat tttacagttt
104761 aatgttatga aatgccaaat tettattgtt tgtattgtac attgctatgt actaatatat
104821 gccagattgc ccatctacct aattaaagtg gaacatattt caagtctagc caattgctgg
104881 ttttatttgc atgatccagt tgtgataaat ctggaattgc cttatataga aatttgtttt
104941 tggcttctgg ttatatccgt atcattacta tcttccatac tgaacatgac taactgttat
105001 aagtattttt cagttaatgg acctatgett accegecaac caaatggtgt tgttgcaaat
105061 attaaaacgg taaagctttg aacaacatac tctgtgactt accattttgc tgtatgtttt
105121 ctcattgtga aaacaatcat cactttcagg agccaacaac tttaccgccc atggtttctg
105181 cacctgcttt ctcgcatgta acacctgttg caaatggtgt ttcacaagga ttatcatcag
105241 tacaaagtcc ctcaccgtcc cttatttcac aggaaactaa tcttgcaaat gatagtgtgc
105301 aagaacataa geetttaata aaeeetatee aacagteaat tegacetggt ggtecageaa
105361 atgtcagcat cctcaacaat ctatcacagc atcggtcagt ggcaaccatt atatcaggtg
105421 gaatgeetgg catecetatg tetggaacag gacagteaat tggtagteaa caagtegtae
105481 aaaacactgc ttttggatca aacacaccca taacaggcaa ttcaaatatt gctgtgtcat
105541 cttctttggg tggcatccaa agcaatatcg gtatatcagg gcctcctgtg acacagggag
105601 gttcaatggg tagtacgcaa ttgggacaag gtggaatcaa tacaaaccaa aatatgataa
105661 gtagcettgg gacaacaact gtetettetg cacetgeaat gatgeeaaca ceagggatgg
105721 ctcaacagge aggtgtaaat tetettggtg tgaccaacag ttetgecatg aacatgeeta
105781 tagtgcagca tectaatgeg cageageage aacageaaca gcaacageag cageageage
105841 agccaccgcc gaagtacgtc aaaatttggg aggtaaaaga ttctgtcttt gtctagcatc
105901 catgtagcaa ttggctctac cctccaaccc tctagtagct tagtagttgt ttgctaaata
105961 taaaaggaaa tattccgtat gacacacatg taatttaatg tttttctaat tctgaccatg
106021 agctgcaata atatatgcac ceteceaact attgaaateg tttgeetcaa aaataaaaaa
106081 ggaactattt aaacccttct gctaatcaac cagatgagat agggctgtga atggtcagag
106141 ttagtetett tattttttgg cettttaaca gttcccaace tgetttttce ttgagaaage
106201 cttcctgaga taaaaagaca acaatttgaa ggttgacctc tgggaattca gcctggtgtt
106261 gtcctttgtg gcagtgtttt tgacttcaag tgctgagtca tgtcctatta accaaagaag
106321 aaagtagtgg acccaccatt gaagatgctg attattttt catccgagta aagcctattt
106381 taccatecte aactgtgtta gtetagaaat caaceteage agaggeecee ttegtaceat
106441 gaaccatgct ggtggtggaa ggggtgcgac tattctgcaa taccctatag acacatgcca
106501 cgtgtctcta ggggcaggtc atttgcggca tcaaggtgac acataaatcg ccttgatctg
106561 ttggcattag caaaggtgtt gaagggtcta gttagtaaga aactaacatt agtctttaat
106621 ctattctccc ctgtccttgt ggagttgtgg tgcagctgct tcgatggtat tgtctctccg
106681 tgtgcaagga cacctcaatt aagtgcataa gaacctgtat ggctgtatcc ataccacatt
106741 catttcatgt atgaagaata cttccctaaa agagctaaca tacgagcaca tgattatatc
106801 taaattagtt tgaagtcaac tgcttatttt tccgtgtcat ttttggttgt ttatatatta
106861 gtaatgtaaa tittatgttc tatttatcgt gtctcaagtt gcctatgttg atgatactgg
106921 tatcatcagt caatatatga tttgtttgtt gtggatgcat aatatgtaat gtttctattt
106981 ttatttcagg gaactttatc tgggcaaagg caaggacaac ctgtatttat ctgtaaactt
107041 gaagtaagtt tetgtttgtt ggatgaattg tetgtgaete egaetattat cacceceta
107101 actetgecea cacagatgae etttgeteat tattatgece atttgaaget gaetgtetea
107161 gaaagaaaaa aagatcacaa gaatccctga attgtatata ttatttgtac gatcatgatt
107221 gttcaaatct tetgttgtca etgaaatgaa attatgtatt teatagttte agtgtgeace
107281 tttatagctg gaatatagtg gctatccttt tgttgtaact acttgtccta cattttttt
107341 tgtttcaaca catttatctg cacaaagcat atactttagt taaatttctg acttttagca
107401 tgtctcacag ggttacagga gtggaacagc atctgaaacg taagttttcg aattgttgca
107461 atgttcttgc attctttttt tttttttgt agttctgttt tgtgtctatt aatggttgta
107521 ttcgaaccaa caaatcaccc aatgtcggta tgccctattt tagtattgtt ttgtagaaga
```

16/18

Figure 10D

```
107581 actggagcaa tggctgattg gtagctgctt ggtattcaca agtttctgtt ccatgcaaca
107641 actagttaag ccattgcttg tttttaaaaa ataaactgta ctgtacaaaa ggtctacggt
107701 acaagaccaa aatggaagca actcaagtta taatgttgga agtttttaga tataatcaat
107761 gaatgetgtg gatttgettt atacteeete egteteatat tataagggat tttgggtgta
107821 tgtgacatat cctatgtcca ggttcgtagt actaaggata tgtcacatcc acccaaaatc
107881 ccttataata taggactgag ggagtagtac agtgccttaa tcttgttaag tgaatggaac
107941 ctccaaaccg atcttgcaaa attcctaata ggatattttg cctaatatag aaatgtcttg
108001 ttcccttgca ctgaacatgt accttctata atgtcgttcc cttgcactga acatgtacct
108061 tetttgteca gaettgeage agaetggeet gaaacaatge agattgtgeg eettataget
108121 caggagcata tgaacaataa gtttgtctca gccactccat ttccatgtta aaaatgatcc
108181 attctacatt ctcataattt gaatcattct ctcttttgtt tttgtttatt tgtttattct
108241 gcagacaata tgttggaaaa gcagactttc tagtatttcg gacattaaat cagcacggct
108301 teettgggca actgeaggaa aagaagetgg teagtgeata atttaacetg tttaatgttt
108361 attattattt catgccacaa ttatttggtc ccacatctat tgcatgccac tcatatgggt
108421 ccttcaacta gtcaaattag tccccaagct ttgttaattg gctcattgta atccctgtgc
108481 ctatgtgtca ccgcatgttg tctcatctca ctcaagtcag cgactaggta cctagggtct
108541 ccagccaacc tagagtatgg gacaaccgaa ttccgtttgc taaattatgt aatataattg
108601 aagacagaag taggctgctg ttatgcttga gggcatatca gtcattttat atagtcttgg
108661 gtggcctcag gttcccagca gatcaaggca atgtttgatg gttgagggat acatgaacta
108721 ttaatccttc cgtttaatca atcatcactt cttaaatttc tgttaatgtt tcgagtggac
108781 ttctgtttca gtgcgcagtg attcaactgc cttcgcaaac tttgttgttg tcagtgtcag
108841 acaaagetgg gegeeteatt ggeatgetgt teeetggggt aegttgattg cagttgegge
108901 tatetetate tgeettgetg tttaccattt tteegetgta getgaagtaa tteettteee
108961 cccaggatat ggtggtgttt aaaccgcagg taccaaccca gcagccacca atgcagcaac
109021 aacagttaca acagcagcag aaccaactac aacagcagaa tcagctccac cagcagcacc
109081 agetgeaace acagaaceag etgeaacage aacaceaget geaacaacag ttacaacage
109141 agcaactaca acaacacatg caactgcaga cacaaggcct tecgettcag cagcagcaat
109201 cccaaggcca tecgetteag cageageaga tgeageaaat geageaacaa cageageage
109261 agcagattca gcaaatgcag cagcagcagc agatgcagca gatgcaacag cagcagcagc
109321 agccccaaca getteageag cagcageaac egeagatggt eggeacaggg atggggeage
109381 agcaaccaca gatggtegge aeggggatgg ggeageagea aeegeagatg gteggegeag
109441 ggatggggca gcaatacatg caggggcacg gtaggacggt gcagcagatg atgcaaggga
109501 agatggcgcc gcagggtcca ggaagcatgc cgggtgcagg gagcatgcct gggggtggct
109561 acctatctTG Aagcacctga tagcctgaat gccagaagaa taagtgggca atttaaccca
109621 gcccttttgg ctgcacaagc tatatagctc atggattact tgcccagcat cctaggtaat
109681 tttcccacct tagtgtggga tacatagtag gtgttctcag tagtttggtt ttggctgtga
109741 tgttttacct gtagatagcg tcttggagcc tacacggcct catgttgtgt tttgtgtagc
109801 ttcttttgat gtcactgcct tatgcttagc ttgtagctgc tggaagcaga tcaaatttaa
109861 aggattaatt aattaatagt aactctgttt aaggattgat tgaccaattt cacttgggag
109921 cctcccaaat aaatatgact gccttaggat ttttcagctt tgtaattgat gcatcaagag.
109981 tatggcagag tggcagtaac tgattaaaat tattgtcatc aaattcgaac caatttaccc
110041 taaattaaaa tgctggccta tgaaggaatc caaacatatt gggattacac aggcaagatc
110101 attcacagaa aaagatacgt tcaagatgac catgacgatg aaaaagggcc tgcataggaa
110161 ttaaattgtc tgcccacggt gctaaacaac aaacaaaata aacttttatg taaatattgc
110221 taaccatate attacagttt ggtettgata etgetetaca gttatgagta acateaatta
110281 caataaatag aatcgagaag agttctaaat gaaacaatga ccgccccagc cttcaatttt
110341 cttccctcca aaacacatgt tagctttcaa ttcttcagac atctttttt ccaaaaacaa
110401 aacaaactat tggaatggcc agaaccagta caagtgcatt ttactctaca ggttggccaa
110461 tgatttgtat gcgtcaattt ttctttggat ccgagcttcc gttcaggtag ccttcaagaa
110521 ttgtgttgca ggcattcatg gctcgcgcat ccagtagact gtggttccag agtttgacca
110581 taaaaaacct ccaacacctg ttcatccagc gataaaaagt tgcaaatgaa acaaacagct
110701 atactatatt cttataatca gccacttacc atagtagagc tggattttgt acaagttctt
110761 gtccatgaaa ctgcgagaat gcttcgcatg cccagggaat atggccatcc gctagtaccc
```

17/18

Figure 10E

```
110821 tgcaattttc cacttttcag taagacggtt gaaatatgca gtagataatg aataaaatga
110881 ctgcacatat gtaaaaggaa tcaagtgccc ttgcagttct gatgtcactg_cttaactctt
110941 ggtatggaaa aaagaagaaa aaaaaagtaa aaacaatcct ttgggcatat agttggtaga
111001 gatagaggtg ggattcaatg tagatgaggg gtgctagccc atgacaatgt atggttgatt
111061 acgtacgcca caggcaacaa cagcatggtg atatatgtgc gcttaggatg cccaaatgcg
111121 actgggagta gtgttggtgg catcggcaaa ggtgcgagaa acagaggtgc tgacaatcat
111181 ggcatcttag taaaggttag cagcaaggag gaagaaggca ttactagtat tagtttttcc
111241 gtcctaagaa aataacaatc agagccataa cacctggcac attacaagtt gtaattcatg
111301 gctcttaacc catgcaattc ttaaaaaaaa aaaacatgca acatcttcat ggaagaaatc
111361 cttcatgata gtttcagaca tggtatgcaa atgaatataa atgtctgttc accaagctgt
111421 ataccacaat aatagataat ggatatagcg gggaaggcct gacctttgtt tccgaacaaa
111481 tgaattccac atatgcataa taagtttctc gtcttttgta acatcaacaa aatcatcaag
111541 catctgcatt tactcaggga agttaaggta tcaagaattt ggacacattt atgtatgaga
111601 acagagcaag catagtaaac ttactcttct atcttcaaaa tcagcaatgt catcatcaac
111661 ttcatcttca ctatcacgat ctgagaaaac ttgctccaat gccattggct acaacagtgt
111721 aactatgtag tcaagctaga tttcaatttt atttgagcca gacttcaaac ggatgcaaaa
111781 aagatcatgt cttcataatt aaaaaaaaaa tgacaaaagg ggaagagggg ctcaagtttg
111841 gccatccaac catagattct ccacataaga ttagctagat atgcatgcgt ttccaaagtg
111901 gctggttttg aaatctgtta ctgcaaagtt tgataatata tatatgccag tgaatgtgaa
111961 atatgccatt gtgaataatt ttggaccaaa gcacccctgt ttcttattcc tccattatcc
112021 ttaattcatt gttttcctgt cgccatgggg gcccccacaa ctaaaatttg cctcatgcac
112081 tagatccaca tggtggctat aaccaaggct gagctacccg catggactca tgatgagcat
112141 ccatgttact gccatatcca caggattgag cttttctaca gcataacgtt gctggggtta
112201 cttgggctaa gatgctgcca tgctcacccc ttgggatagc agtggttcaa accagtgatt
112261 gctgtgtcaa cggcaacgtg tgatatctgt gttgacttga tcctcaaaca tgggaagtct
112321 cgggtgaaac ctcaccaaaa tggagtgaaa tgtgaatcag gtgttcagcc agacttgggg
112381 aagatggtca tgccagccet atgccaagtg acatgactgg gagggaggga aagatcccac
112441 tgagtacaac agtggcagtt agccatggga gggtgataca agttggcaat gctatatttc
112501 aaagggaaaa catttcccag accatggatt ctttttctgg cagccaggtc cctgatgcct
112561 tagtcatcgg caagettgat ttggcactta gtcagttctg atcettteet acagttcatc
112621 ctttttctct atttctattt tgttgaccca gtaactagtc caaaaaccct ggttattctt
112681 ggttacgtaa cttactactc cctccaattt cccaactgat catcatataa cttttttaag
112741 gttattccca aatgatcatc atattagtat tcattcacta agtctgttcg ttattctgtg
112801 catgggagta gatggacatt ggtgcatgcg tccatgcata caatccttta caaccaacat
112861 gcaatgtttt gatttgttag tggctaggaa gtattgggga tagtgcatgc aagtttgtta
112921 ccgaattaaa tgtagtatga gagaattatt agctttcctt ggtcttggtc ttataatatg
112981 atgatcaatt gggaatggag gtagtagtaa gaaatcgatt agttttttag atgagaaatg
113041 cagacgagta gggaggacat tttctgatgt ttctctcgtg accatccaga gtgatagcag
113101 gaaacttttg attgacgtat agaaaatttc accatctata taacccttta ttaactccaa
```

exons = (underlined)

exons predicted from Maize EST and comparing to Arabidopsis sequence or deduced from the Arabidopsis sequence = (underlined, italic) intron donor and aceptor sites = (bold; italic) transcription initiation = (caps; italic) start and stop codons = (caps; bold)

WO 2004/113499

18/18

Figure 11

Rice PFT1 putative protein sequence

WRRRRPRGSWWWPWRGRRWGRTGPSPWRTTSRRSCEKLAG TPPELALVVFHTHGPYSAFCVQRSGWTKDMNVFLSWLSGIS F S G G G F S E A A I S E G L A E A L M I L Q G S S S N S Q N H Q S H E V Q K H C ILVAASNPYPLPTPVYRPLVQSSDHKENNDGAKESCLADAE TVAKSLLRCSVSLSVVSPKQLPTLKAIYNAAKRNPRAADPS V D H A K N P H F L V L L S D N F L E A R T A L S R P L P G N L V T N H P I T K M D T A A T S V P V P T S N G N P S V N G P M L T R Q P N G V V A N I K T E P T T L P P M V S A P A F S H V T P V A N G V S Q G L S S V Q S P S P S L I S Q E T N L A N D S V Q E H K P L I N P I Q Q S I R P G G P A N V S I L N N L S Q H R S V A T I I S G G M P G I P M S G T G Q S I G S Q Q V V Q N T A F G S N T P I T G N S N I A V S S S L G G I Q S N I G I S G P P V T Q G G S M G S T Q L G Q G G I N T N Q N M I S S L G T T T V S S A P A M M P T P G M A Q Q A G V N S L G V T N S S A M N M P I V Q H P N A Q Q Q Q Q Q Q Q Q Q Q Q P P P K Y V K I W E G T L S G Q R Q G Q PVFICKLEGYRSGTASETLAADWPETMQIVRLIAQEHMNNK QYVGKADFLVFRTLNQHGFLGQLQEKKLCAVIQLPSQTLLL SVSDKAGRLIGMLFPGDMVVFKPQVPTQQPPMQQQQLQQQ ибгоббибгнобноговбибгоббногобогобниб LQTQGLPLQQQQSQGHPLQQQQMQQMQQQQQQQQQQXQQQ Q Q M Q Q M Q Q Q Q P Q Q L Q Q Q Q P Q M V G T G M G Q Q P Q M V G T G M G Q Q P Q M V G A G M G Q Q Y M Q G H G R T V Q Q M M Q G K M A P Q G P G S M P GAGSMPGGGYLS

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

☐ OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.